

09/830706

JC08 Rec'd PCT/PTO 27 APR 2001

SEQUENCE LISTING

<110> Medical & Biological Laboratories Co.,Ltd.

<120> Thioredoxin reductase II

<130> M3-007PCT

<140>

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<150> JP 1998-310422

<151> 1998-10-30

<160> 37

<170> PatentIn Ver. 2.0

<210> 1

<211> 1959

<212> DNA

<213> Homo sapiens

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<221> CDS

<222> (10)..(1572)

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<221> misc_structure

<222> (1567)..(1569)

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<222> (1664)..(1666)

<223> tga is transrated to selenosysteine, shown by Xaa.

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10

cgg acg cag gcc gtg gcg ggc ggg gtg cgg ggc gcg gcg cgg ggc gca 99

Arg Thr Gln Ala Val Ala Gly Gly Val Arg Gly Ala Ala Arg Gly Ala

15

20

25

30

gca gca ggt cag cgg gac tat gat ctc ctg gtg gtc ggc ggg gga tct 147

Ala Ala Gly Gln Arg Asp Tyr Asp Leu Leu Val Val Gly Gly Gly Ser

35

40

45

ggt ggc ctg gct tgt gcc aag gag gcc gcc cag ctg gga agg aag gtg 195

Gly Gly Leu Ala Cys Ala Lys Glu Ala Ala Gln Leu Gly Arg Lys Val

50

55

60

gcc gtg gtg gac tac gtg gaa cct tct ccc caa ggc acc cgg tgg ggc 243

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acc aga agt ctg aat ttg gag aag gct ggg gta gat act agc ccc gac Thr Arg Ser Leu Asn Leu Val Glu Lys Ala Gly Val Asp Thr Ser Pro Asp 320 325 330			1011
act cag aag atc ctg gtg gac tcc cgg gaa gcc acc tct gtg ccc cac Thr Gln Lys Ile Leu Val Asp Ser Arg Glu Ala Thr Ser Val Pro His 335 340 345 350			1059
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tcc tca gat ctg atg gac tac gac aat gtt ccc acg acc gtc ttc acc Ser Ser Asp Leu Met Asp Tyr Asp Asn Val Pro Thr Thr Val Phe Thr 385 390 395			1203
cca ctg gag tat ggc tgt gtg ggg ctg tcc gag gag gag gca gtg gct Pro Leu Glu Tyr Gly Cys Val Gly Leu Ser Glu Glu Glu Ala Val Ala 400 405 410			1251
cgc cac ggg cag gag cat gtt gag gtc tat cac gcc cat tat aaa cca Arg His Gly Gln Glu His Val Glu Val Tyr His Ala His Tyr Lys Pro 415 420 425 430			1299
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aag tgt ggg gct tcc tat gcg cag gtg atg cgg acc gtg ggt atc cat Lys Cys Gly Ala Ser Tyr Ala Gln Val Met Arg Thr Val Gly Ile His 480 485 490			1491
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35 40 45

Arg Trp Gly Leu Gly Gly Thr Cys Val Asn Val Gly Cys Ile Pro Lys
50 55 60

Lys Leu Met His Gln Ala Ala Leu Leu Gly Gly Leu Ile Gln Asp Ala
65 70 75 80

Pro Asn Tyr Gly Trp Glu Val Ala Gln Pro Val Pro His Asp Trp Arg
85 90 95

Lys Met Ala Glu Ala Val Gln Asn His Val Lys Ser Leu Asn Trp Gly
100 105 110

His Arg Val Gln Leu Gln Asp Arg Lys Val Lys Tyr Phe Asn Ile Lys
115 120 125

Ala Ser Phe Val Asp Glu His Thr Val Cys Gly Val Ala Lys Gly Gly
130 135 140

Lys Glu Ile Leu Leu Ser Ala Asp His Ile Ile Ile Ala Thr Gly Gly
145 150 155 160

Arg Pro Arg Tyr Pro Thr His Ile Glu Gly Ala Leu Glu Tyr Gly Ile
165 170 175

Thr Ser Asp Asp Ile Phe Trp Leu Lys Glu Ser Pro Gly Lys Thr Leu
180 185 190

Val Val Gly Ala Ser Tyr Val Ala Leu Glu Cys Ala Gly Phe Leu Thr
195 200 205

Gly Ile Gly Leu Asp Thr Thr Ile Met Met Arg Ser Ile Pro Leu Arg
210 215 220

Gly Phe Asp Gln Gln Met Ser Ser Met Val Ile Glu His Met Ala Ser
225 230 235 240

His Gly Thr Arg Phe Leu Arg Gly Cys Ala Pro Ser Arg Val Arg Arg
245 250 255

Leu Pro Asp Gly Gln Leu Gln Val Thr Trp Glu Asp Ser Thr Thr Gly
260 265 270

Lys Glu Asp Thr Gly Thr Phe Asp Thr Val Leu Trp Ala Ile Gly Arg
275 280 285

Val Pro Asp Thr Arg Ser Leu Asn Leu Glu Lys Ala Gly Val Asp Thr
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093006-90403601

Ser Pro Asp Thr Gln Lys Ile Leu Val Asp Ser Arg Glu Ala Thr Ser
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 Val Pro His Ile Tyr Ala Ile Gly Asp Val Val Glu Gly Arg Pro Glu
 325 330 335
 Leu Thr Pro Thr Ala Ile Met Ala Gly Arg Leu Leu Val Gln Arg Leu
 340 345 350
 Phe Gly Gly Ser Ser Asp Leu Met Asp Tyr Asp Asn Val Pro Thr Thr
 355 360 365
 Val Phe Thr Pro Leu Glu Tyr Gly Cys Val Gly Leu Ser Glu Glu Glu
 370 375 380
 Ala Val Ala Arg His Gly Gln Glu His Val Glu Val Tyr His Ala His
 385 390 395 400
 Tyr Lys Pro Leu Glu Phe Thr Val Ala Gly Arg Asp Ala Ser Gln Cys
 405 410 415
 Tyr Val Lys Met Val Cys Leu Arg Glu Pro Pro Gln Leu Val Leu Gly
 420 425 430
 Leu His Phe Leu Gly Pro Asn Ala Gly Glu Val Thr Gln Gly Phe Ala
 435 440 445
 Leu Gly Ile Lys Cys Gly Ala Ser Tyr Ala Gln Val Met Arg Thr Val
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104030-902030

<213> Artificial Sequence

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<223> Description of Artificial Sequence:Synthesis

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<210> 12

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<212> DNA

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098006-080701

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